ONV-I Night Vision Goggles (NVG)

ONV-I Night Vision Goggles are designed for night time observation, night land/sea navigation in starlight conditions. ONV-I is used for military missions, foot and/or vehicle patrol, search and rescue and emergency operations, cross-country navigation in total darkness.

ONV-I Night Vision Goggles are in use by many Military and Law Enforcement agencies worldwide.

FEATURES

- Generation Super 2+ and 3 Image Intensifier Tube
- Power supply with built-in bright flash protection (with automatic brightness gain regulation)
- Designed to allow full operation with or without gloves
- Even IR illumination across full field of view
- Corrosion proof
- 'Low battery' and 'IR On' indications are displayed in field of view
- Head mount design easily adjusts for comfortable viewing.
- Flip up/down feature allows fixing goggles in a vertical

High quality 3x and 5x objectives are filled with nitro
Can be replaced in field conditions

x afocal attachment lens

Easily mounts on the objective
Provides 3x magnification

3x objective

5x objective

SAE Systems Ltd, 121 Paddock Street, Soham, Cambridgeshire, UK. email: info@sae-ltd.com tel: +44 7775 717231

Product Specifications

ONV-I		1x objective	3x objective	5x objective
Optical parameters				
Identification range of human body*, m		200-220	320-350	450-500
Magnification		1	3	5
Field of view		40°±2	12,4°±0,6	8,0°±0,4
Resolution, cy/mr, min	EPM44G-A EMP102G-05-22A	1,15	2,76	4,77
	EPM44G-B EMP102G-05-22B	6	2,30	3,98
Focus range, m		0,25 to infinity		10 to infinity
Diopter adjustment		-6 to + 5		
Exit pupil diameter, mm		15		
Eye relief, mm		15		
Interpupillary adjustment, mm		57 ÷ 72		
Electrical parameters				
Supply voltage, V		2 - 3		
Power supply		2 standard AA batteries		
Battery life with IR On/Off, min hours		40 / 80		
Mechanical parameters				
Dimensions, mm		187 x 132 x 58	250 x 132 x Ø60	234 x 132 x Ø84
Weight without batteries, g		500	700	760
Bag weight, g		250		

Identification range of human body is defined by IIT type and generation and depends on weather or viewing conditions and other factors.

IIT parameters				
Type	EPM44G-A	EPM44G-B	EPM102G-05-22A	EPM102G-05-22B
Generation	2+		3	
Resolution, lp/mm min ,	57	51	57	51
Signal-to-noise ratio, min	22	20	24	22
Integral sensitivity, mkA/mm, min	550	500	1 800	1 500
Mean Time Before Failure, hours	10 000			

Standard set:

- Night Vision Goggles
- Head mount
- Carrying bag
- Shoulder strap
- Lens napkin
- User manual

Ambient conditions:

- Operating Temperature Range ±50°C
- Relative Humidity 98% at 25°C
- Shock resistance 5g
- Immersion 0,5m (30 minutes)

Accessories:

- 3x and 5x objective lens
- 3x afocal attachment lens
- Adapter for PVS type head-strap mask
- AUTO switch off when device is set in vertical position
- Helmet mount
- IR instant switch-on button
- Protective device against long-lasting bright light exposure («off» at E>40lx, in 60 sec maximum)
- Demist shield
- Protective glass

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